

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	4
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Complete if Known

Application Number	09/813,496
Filing Date	03-21-2001
First Named Inventor	Donald S. Gardner
Art Unit	2832
Examiner Name	Not yet assigned
Attorney Docket Number	42390P10888

U.S. PATENT DOCUMENTS

Examiner Initials [*]	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
TTN		US- 3881244	05-06-1975	Kendall	
↓		US- 5095357	03-10-1992	Andoh et al.	
		US- 5635892	06-03-1997	Ashby et al.	
↓		US- 5801100	09-01-1998	Lee et al.	
TTN		US- 5877533	03-02-1999	Arai et al.	
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6/25/03

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Sheet	2	of	4
		Attorney Docket Number	42390P10888

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
TTN		K. SHIRAKAWA, ET AL., "Thin Film Cloth-Structured Inductor For Magnetic Integrated Circuit," IEEE Transactions on Magnetics, September 1990, pp. 2262-2264, Vol. 26, No. 5.	
		M. YAMAGUCHI, ET AL., "Characteristics Of Magnetic Thin-Film Inductors At Large Magnetic Field," IEEE Transactions on Magnetics, November 1995, pp. 4229-4231, Vol. 31, No. 6.	
		E. BRANDON, ET AL., "Microinductors For Spacecraft Power Electronics," Magnetic Materials, Processes, and Devices VI Applications to Storage and Microelectromechanical Systems (MEMS), 2001, pp. 559-567, Vol. 2000-29, The Electrochemical Society, Inc., Pennington, New Jersey.	
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		S.S. MOHAN, ET AL., "Simple Accurate Expressions For Planar Spiral Inductances," IEEE Journal of Solid-State Circuits, October 1999, pp. 1419-1424, Vol. 34, No. 10.	
		JOACHIM N. BURGHARTZ, "Integrated Multilayer RF Passives in Silicon Technology," IBM Research Division, Yorktown Heights, NY.	No DATE
		JAE YEONG PARK, ET AL., "Batch-Fabricated Microinductors With Electroplated Magnetically Anisotropic and Laminated Alloy Cores," IEEE Transactions on Magnetics, September 1999, pp. 4291-4300, Vol. 35, No. 5.	
		M. YAMAGUCHI, ET AL., "MGHz-Drive Magnetic Thin-Film Inductors For RF Integrated Circuits Using Micro-Patterned Granular Film" IEEE, 1990.	No MONTH
		ALI M. NIKNEJAD and ROBERT G. MEYER, "Analysis, Design, and Optimization of Spiral Inductors and Transformers for Si RF IC's," IEEE Journal of Solid-State Circuits, October 1998, pp. 1470-1481, Vol. 33, No. 10.	
		DONALD S. GARDNER and PAUL A. FLINN, "Mechanical Stress As A Function Of Temperature For Aluminum Alloy Films," Journal of Applied Physics, February 15, 1990, pp. 1831-1845, Vol. 67.	
TTN		M. BABA, ET AL., "GHz-Drive Magnetic Thin-Film Inductor Using CoNbZr Film," Journal of the Magnetics Society of Japan, 2000.	No MONTH

Examiner Signature	Jung H. T. Nguyen	Date Considered	6/25/03
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Sheet 3 of 4

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First Named Inventor	Donald S. Gardner
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
TTN		Y. KOBAYASHI, ET AL., "New Type Micro Cloth-Inductor And Transformer With Thin Amorphous Wires And Multi-Thin Coils," IEEE Transactions on Magnetics, September 1992, pp. 3012-3014, Vol. 28, No. 5.	
		H. MATSUKI and K. MURAKAMI, "A New Cloth Inductor Using Amorphous Fiber," IEEE Transactions on Magnetics, September 1985, pp. 1738-1740, Vol. MAG-21, No. 5.	
		V. KORENIVSKI and R.B. VAN DOVER, "Magnetic Film Inductors For Radio Frequency Applications," Journal of Applied Physics, November 15, 1997, pp. 5247-5254, Vol. 82.	
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		JOHN R. LONG and MILES A. COPELAND, "The Modeling, Characterization, And Design Of Monolithic Inductors For Silicon RF IC's," IEEE Journal of Solid-State Circuits, March 1997, pp. 357-369, Vol. 32, No. 3.	
		M. YAMAGUCHI, ET AL., "Magnetic Thin-Film Inductor For RF Integrated Circuits," Extended Abstracts of the 1999 International Conference on Solid-State Devices and Materials, 1999, pp. 580-281, Tokyo.	
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		A. FESSANT, ET AL., "Influence Of In-Plane Anisotropy And Eddy Currents On The Frequency Spectra Of The Complex Permeability Of Amorphous CoZr Films," IEEE Transactions of Magnetics, January 1993, pp. 82-87, Vol. 29, No. 1.	
		JOACHIM N. BURGHARTZ, "Progress In RF Inductors On Silicon - Understanding Substrate Losses," IBM Research Division, Yorktown Heights, NY. <i>No DATE</i>	
		S. YABUKAMI, ET AL., "Noise Analysis Of A MHz-3 GHz Magnetic Thin Film Permeance Meter," Journal of Applied Physics, April 15, 1999, pp. 5148-5150, Vol. 85, No. 8.	
TTN		JAE PARK and MARK G. ALLEN, "Bar-Type Microinductors and Microtransformers With Electroplated Alloy Cores," Magnetic Devices Research, sponsored by Packaging Research Center. <i>No DATE</i>	

Examiner Signature	<i>Jaylen T. Nguyen</i>	Date Considered	<i>6/15/03</i>
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TTN		ERIK BRANDON, "System On A Chip Integrated Passive Components (μ IRS)" No MONTH DATE	
		MASAHIRO YAMAGUCHI, "Magnetic Films For Planar Inductive Components And Devices," Handbook of Thin Film Devices, edited by M.H. Francombe, 2000, pp. 185-186, Vol. 4: Magnetic Thin Film Devices. No MONTH	
		S.S. MOHAN, ET AL., "Bandwidth Extension In CMOS With Optimized On-Chip Inductors," IEEE Journal of Solid-State Circuits, March 2000, pp. 346-355, Vol. 35, No. 3.	
		S.S. MOHAN, ET AL., "Modeling And Characterization Of On-Chip Transformers," Center for Integrated Systems, Stanford University, Stanford, CA 94305. No DATE	
		M.M. MOJARRADI, ET AL., "Power Management And Distribution For System On A Chip For Space Applications," Jet Propulsion Laboratory, California Institute of Technology, under a contract with the National Aeronautics and Space Administration, Paper No. 284. No DATE	
		TERENCE O'DONNELL, ET AL., "Microtransformers and Inductors Using Permalloy Thin Films," Preparation, Properties, and Applications of Thin Ferromagnetic Films, June 2000, pp. 45-52.	
		C. PATRICK YUE and S. SIMON WONG, "On-Chip Spiral Inductors With Patterned Ground Shields For Si-Based RF IC's," IEEE Journal of Solid-State Circuits, May 1998, pp. 743-752, Vol. 33, No. 5.	
TTN		DONALD S. GARDNER, United States Patent Application for "Method and Apparatus for Providing Inductor for Integrated Circuit or Integrated Circuit Package" TECHNOLOGY CENTER 2800 JUN 19 2002 RECEIVED No DATE	

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Signature

Jayla T. Nguyen

Date

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